

Starplex[®] HD 2 M5

High Performance Extreme Pressure Moly Grease
(formerly Delo Starplex Moly 5 EP)



Product Description

Starplex[®] HD 2 M5 is a premium, multipurpose EP grease, designed for use across transport, construction, mining, and agriculture applications.

It is formulated from an ISO 460 base oil, lithium complex thickener, extreme pressure additives, rust and oxidation inhibitors, tackiness additives, and 5% molybdenum disulfide.

Customer benefits and product features

Customer benefits

- **Helps protect metal surfaces**
Effective EP additive, high base fluid viscosity, and additional molybdenum disulfide solid film lubricant help to protect against component wear under severe conditions and shock loading. Rust and corrosion inhibitors aid protection of metal surfaces, even in conditions of severe water exposure.
- **Helps to minimize downtime**
High dropping point helps to minimize leakage from bearings at elevated temperatures, and good oxidation resistance contributes to a long grease life. Natural water resistance of the lithium complex thickener, the effective tackiness additive and the additional molybdenum disulfide solid film lubricant help to prevent lubricant failure, even under the wettest conditions.
- **Ease of application**
Good pumpability characteristics of the lithium complex thickener provide suitable flow properties for most centralized lubrication system applications.
- **Reduces complexity**
Multipurpose capability allows use in a wide range of automotive and industrial applications, reducing the number of different greases required and eliminating product misapplication.

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Applications

- Heavily loaded pin and bush bearings
- Mining equipment, such as haul trucks, shovels, excavators, loaders, bulldozers, scrapers and graders
- Backhoes and shovels
- Road rollers
- Agricultural tractors, combines and cotton pickers
- Construction equipment, such as bulldozers, scrapers, earthmovers and cranes
- Heavy-duty transport

Usable temperature range in continuous service is -20 to 130°C. Maximum temperature for short term exposure is 210°C.

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Product approvals, performance and recommendations

Developed independently by Chevron to comply with the following performance standards and specifications:

STARPLEX [®] HD 2 M5	
ISO 6743-9 ISO-L-XBDEB 2	Meets the requirements
DIN 51502 KPF2K-20	Meets the requirements
Caterpillar Multipurpose Molybdenum Grease (MPGM) - specification containing 5% molybdenum	Meets the requirements
Bucyrus SD 4711 MPG - multipurpose grease specification	Meets the requirements
Komatsu Mining Germany Work Standard	Meets the requirements

Consult OEM representatives for independent verification, updates and recommendations.

Service Considerations

The inclusion of molybdenum disulfide provides an extra measure of protection under shock loading which is very common in construction, off-highway transport, and agricultural usage. During heavy shock loading, the lubricant film between metal surfaces can be temporarily ruptured or squeezed out. When using Starplex HD 2 M5, some molybdenum disulfide stays in place as a solid film lubricant to protect metal surfaces, even under extreme shock loading conditions, preventing metal-to-metal contact which could cause component damage. The presence of molybdenum disulfide is also valuable in dirty environments, or when proper re-greasing intervals cannot be followed.

Starplex HD 2 M5 is not recommended for constant-velocity joints on front wheel drive vehicles.

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Typical Test Data

STARPLEX [®] HD 2 M5	TEST METHOD	RESULTS
Product Code		510883
Minimum Operating Temperature, °C		-20
Maximum Operating Temperature, °C		130
Thickener Type		Lithium Complex
Dropping Point, °C	ASTM D566	235
Texture	Observation	Smooth, tacky
Color	Observation	Grey
ISO Viscosity Grade Base Oil Equivalent		460
Kinematic Viscosity, mm ² /s @ 40°C	ASTM D445	460
mm ² /s @ 100°C	ASTM D445	30.7
MoS2 content, mass %	Calculated	5%
Worked Penetration, 60 mm/10	ASTM D217	280
Timken OK Load, kg	ASTM D2509	>25
Four Ball Weld Point, kg	ASTM D2596	500

ENVIRONMENT, HEALTH, and SAFETY. Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions, and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit the Product Information Center.

This Product Data Sheet (PDS) was produced for the Africa, Middle East and Pakistan region in good faith from the best information available at the time of issue. The specific information included may not directly reflect the local market or conditions. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. For the most up-to-date, country-specific information, please contact your local customer service center.

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Chevron company product

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